

F1-189

COLUSA COUNTY RESOURCE CONSERVATION DISTRICT

100 SUNRISE BLVD., SUITE B COLUSA, CA 95932

Phone (916) 458-2931

FAX (916) 458-2765

DWR WAREHOUSE

97 JUL 28 PM 3:10

CALFED BAY-DELTA ECOSYSTEM RESTORATION PROJECT PROPOSAL

I. EXECUTIVE SUMMARY/INQUIRY SUBMITTAL FORMAT

a. **PROJECT TITLE & APPLICANT NAME:** Sand and Salt Creek Watershed Project,
Colusa Resource Conservation District

b. **PROJECT DESCRIPTION & PRIMARY BIOLOGICAL/ECOLOGICAL OBJECTIVES:**

The Sand and Salt Creek Watershed project (SSCW) will serve as a watershed management project to assist private landowners address non-point source pollution issues associated with the Clean Water Act, particularly for three agricultural landuses: grazing, almond orchards, and irrigated cropland. The project will consist of 20 selected sites which will implement effective management practices for the reduction of surface runoff, Diazinon residues, and silt and sedimentation into the Colusa Basin Drain and the Sacramento River. Each cooperating site will have a Resource Management System (RMS) plan developed utilizing an ecosystem based planning approach. Each cooperating site plan will be a three-year contract with the landowner, who receives 75% cost-sharing for practices implemented. A second phase of the SSCW project will be to install grade stabilization structures to control the grade and head cutting in channels of the SSCW. Grade stabilization structures can be used to address the destabilization of grade in channels and gully erosion problems while maintaining or improving for fish and wildlife. This component shall consist of furnishing material and installing grade stabilization structures to the dimensions, lines and grades as designed by the Colusa Public Works Department. The benefits of this project include the improvement of water quality for all beneficial uses, and the improvement and increase of aquatic and terrestrial habitats. Moreover, this project will improve ecological functions in the Bay-Delta to support sustainable populations of diverse and valuable plant and animal species. This project is expected to benefit seasonal wetland and aquatic habitat, instream aquatic habitat and shaded riverine habitat. In addition, priority species expected to benefit from this project include: Winter-run chinook salmon, Spring-run chinook salmon, Late-fall run chinook salmon, Steelhead trout and Green sturgeon. Secondary priority species receiving benefits will include striped bass and migratory birds.

c. **APPROACH/TASKS/SCHEDULE:**

The Colusa County Resource Conservation District (CRCD) is the lead agency for the proposed Sand and Salt Creek Watershed Project. CRCD has an MOU with the USDA and with the Natural Resources Conservation Service (NRCS). Via the MOUs the NRCS will act as staff to assist with implementation, and will provide part-time staff to assist with all phases of the project. The CRCD will seek other MOUs during the first year with other cooperating agencies and arrange for staff to manage the project. The existing Steering Committee will have the role of overseeing the project and to provide public participation. The project is scheduled to begin November 1, 1997 and end October 31, 2000.

The project tasks include:

Task 1: Project Management & Administration

Task 2: Public Participation

Task 3: Select Cooperating Sites

Task 4: Establish Monitoring Sites

Task 5: Baseline Resource Data

Task 6: Develop RMS Plans

Task 7: Schedule Workshops and Tours

Task 8: Implement RMS Plans*

Task 9: Implement Grade Stabilization Structures**

Task 10: Conduct Workshops and Tours

Task 11: Prepare Final Report

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

d. JUSTIFICATION FOR PROJECT AND FUNDING BY CALFED:

The Sand and Salt Creek Watershed (SSCW) is considered a sub-watershed within the Colusa Basin. The Colusa Drain has been identified as an impaired water body which conveys water into the Sacramento River. The SSCW contains agricultural land uses which have been identified as contributors to NPS. Particular pollution sources are Diazinon and sedimentation from almond orchards, animal waste/nutrients and sedimentation from grazing lands, and sedimentation from other irrigated cropland. Sand and Salt Creek is flooded out each winter due to concentrated flows from the upper watershed, and runoff from adjacent orchards. The flooding situation contributes to the transport of the above pollutants into the Colusa Basin Drain.

e. BUDGET COSTS AND THIRD PARTY IMPACTS:

- A. Personnel: Project Manager: 67% of salary for 3 years of project: \$109,864
- B. Operating Expenses - Photocopying, telephone, office supplies, mass mailings: \$9,500
- C. Property acquisition: Display Board, camera, over-head projector, flip-charts, slide show presentation, signs, computer rental: \$7,900
- D. Professional & Consulting Services: \$18,500
- E. Monitoring - Lab Analysis: \$20,000
- E. Resource Management System Plans - Implementation \$322,659 (75% of the cost-share rate)
- F. Grade Stabilization Structures - Implementation: \$110,240

f. APPLICANT QUALIFICATIONS:

The CRCDD consists of 7 volunteer directors and 1 paid staff position, a part-time secretary. In addition to the CRCDD providing a full-time project manager, NRCS will provide the RCD with a part-time Planner, a part-time Agricultural Engineer and other staff as needed. The RCD secretary will provide administrative support, and an NRCS Planner will work in the field with the landowners to develop Resource Management System plans, collect baseline data, and monitor implementation. The Colusa Public Works Department will provide a part-time Civil Engineer to assist with the survey and design of grade stabilization structures. Cooperating agencies include: USDA Natural Resources Conservation Service, Colusa Department of Public Works, Colusa Basin Drainage District and Colusa County Board of Supervisors.

g. MONITORING AND DATA EVALUATION:

The monitoring program will compare quantity and/or quality of soil and water that is entering the site, to soil and water leaving the site, with the objective of improving water quality via the installation of specific conservation practices scheduled in an RMS level plan. Baseline water quality and resource data will be gathered during the first year for the cooperating sites. The monitoring parameters to be studied are soil erosion, sedimentation, infiltration, runoff, Diazinon.

h. LOCAL SUPPORT/COORDINATION/COMPATIBILITY WITH CALFED OBJECTIVES:

There has been overwhelming interest by landowners to participate with the SSCW project as cooperating sites that will apply RMS level plans. These requests to participate with the project will require over \$700,000 to implement the associated conservation practices. The implementation RMS plans on these sites will help improve the health of the SSCW, the Colusa Basin and the Sacramento River. A Steering Committee will serve to provide support and guidance for the project. The purpose of the steering committee will be to act as a citizen's monitoring group by making decisions and recommendations regarding progress of the project, results of surveys, sponsor public meetings, sponsor all educational workshops and tours.

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

II. TITLE PAGE

- a. **TITLE OF PROJECT:** Sand and Salt Creek Watershed Project
- b. **NAME OF APPLICANT:** Colusa County Resource Conservation District
PRINCIPLE INVESTIGATOR: Roney Gutierrez, Project Manager
ADDRESS: 100 Sunrise Blvd., Suite B
PHONE: 916-458-2931 **FAX:** 916-458-2765
ORGANIZATIONAL AFFILIATION: Roney Gutierrez is a USDA Natural Resources Conservation Service employee provided to the Colusa Resource Conservation District to serve as project manager.
- c. **TYPE OF ORGANIZATION:** Government Agency
TAX STATUS: Tax-exempt
- d. **TAX ID. NUMBER:** 94-6000508
- e. **TECHNICAL AND FINANCIAL CONTACT PERSON:** Roney Gutierrez
ADDRESS, PHONE/FAX: same as above
- f. **PARTICIPANTS/COLLABORATORS IN IMPLEMENTATION:**
USDA Natural Resources Conservation Service, Colusa County Dept. of Public Works, Colusa Basin Drainage District, Colusa County Board of Supervisors
- g. **RFP PROJECT GROUP TYPES:** Services, Construction

COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL

III. PROJECT DESCRIPTION

a. PROJECT DESCRIPTION AND APPROACH:

The Sand and Salt Creek Watershed project will serve as a watershed management project to assist private landowners address non-point source pollution issues associated with the Clean Water Act, particularly for three agricultural landuses: grazing, almond orchards, and irrigated cropland. The project will consist of 20 selected sites which will implement effective of management practices for the reduction of surface runoff, Diazinon residues, and silt and sedimentation into the Colusa Basin Drain and the Sacramento River. Each cooperating site will have a Resource Management System (RMS) plan developed utilizing an ecosystem based planning approach. The plans will include conservation practices, a monitoring component, an educational component, and water quality/water conservation management goals. Six of the 20 cooperating sites will be selected for the establishment of a monitoring site. The monitoring element will compare baseline data collected at the site during the first year to data collected during the second and third project years. Each cooperating site plan will be a three-year contract with the landowner, who receives 90% cost-sharing for practices implemented. In order for the landowner to receive 75% cost-sharing for implementing management practices, the landowner must be willing to host at least 1 workshop/field tour during the 3-year contract. Six of the 20 cooperating sites will be selected to host a workshop/field tour.

Consultants and professionals will be contracted to teach landowners about: their role in the Clean Water Act, goals of an RMS plan to address water quality objectives of the Clean Water Act, how to write an RMS plan with a water quality monitoring component, how to implement the plan, and the conservation practices for rangeland, almond orchards and irrigated rowcrops to address water quality improvement. Workshop materials will be provided to the audience for "hands-on" objectives. A total of 6 workshops will be conducted. Field tours will be conducted with landowners as the target audience. The tours will be on the selected cooperating sites, with 3 tours being conducted in each of the 2nd and 3rd project years. The goal of the tours will be to "show-and-tell" landowners how to implement conservation practices, conduct water quality monitoring, and hear first hand from the cooperating landowner the success/failure of implementing the RMS plan. Informational mailings will be sent to all landowners within the watershed to keep them informed of the project workshops, tours, goals, and progress. In addition, a quarterly newsletter will be distributed to over 250 landowners/managers in the SSCW project area to provide information on the activities and developments of the project.

A second phase of the SSCW project will be to install grade stabilization to control the grade and head cutting in natural and artificial channels structures in the SSCW. There are many areas in the SSCW where concentration and flow velocity of water have destabilized the grade in channels and caused gully erosion. Grade stabilization structures can be used to address these problems while maintaining or improving for fish and wildlife. A properly operated and maintained grade stabilization structure will function to stabilize eroding areas and to safely convey runoff from the drainage area. This component shall consist of furnishing material and installing grade stabilization structures to the dimensions, lines and grades as designed by the Colusa Public Works Department. Measures and construction methods shall be incorporated as needed and practical that enhance fish and wildlife values. Special attention shall be given to protecting visual resources and maintaining key shade, food and den trees. Construction operations shall be done in such a manner that erosion and air and water pollution are minimized and held within legal limits.

A Steering Committee of landowners within the watershed (a representative for each landuse), agricultural groups (Farm Bureau, Cattlemen's Association, irrigation companies), and participating agencies/groups (Colusa County RCD, Yolo County RCD, NRCS, Colusa County Board of Supervisors, Colusa County Public Works, Extension Service, RWQCB, CBDD) will serve to provide support and guidance for the project. The purpose of the steering committee will be to act as a citizen's monitoring group by making decisions and

COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL

recommendations regarding progress of the project, results of surveys, sponsor public meetings, sponsor all educational workshops and tours. One survey per year will be conducted to measure landowner adoption and attitudes toward meeting the Clean Water Act via the Resource Management System plans being demonstrated, the conservation practices installed to address water quality/water conservation, and the conservation measures and water quality/water conservation issues being taught in the workshops.

b. LOCATION OF PROJECT:

The Sand and Salt Creek Watershed is located primarily within the boundaries of Colusa County, although a small section extends into Yolo County. The SSCW is a sub-watershed within the Colusa Basin. The Colusa Basin (hydrologic unit #520.21) is the downstream impaired waterbody, which feeds into the Sacramento River. See Attachment 1 for an illustration of the project location.

c. EXPECTED BENEFITS:

The benefits of this project include the improvement of water quality for all beneficial uses, and the improvement and increase of aquatic and terrestrial habitats. Moreover, this project will improve ecological functions in the Bay-Delta to support sustainable populations of diverse and valuable plant and animal species. This project is expected to benefit seasonal wetland and aquatic habitat, instream aquatic habitat and shaded riverine habitat. In addition, priority species expected to benefit from this project include: Winter-run chinook salmon, Spring-run chinook salmon, Late-fall run chinook salmon, Steelhead trout and Green sturgeon. Secondary priority species receiving benefits will include striped bass and migratory birds.

This project will derive its expected benefits by addressing various stressors affecting priority and secondary species and habitats. One stressor to be addressed is the alteration of water flow. The watershed management component of this project along with the use of grade stabilization structures would address the severe problems in the SSCW related to changes in the hydrograph of many channels. Stressors to be addressed related to floodplain changes include the hydrological isolation of floodplains and the elimination of fine sediment replenishment. The use of grade stabilization structures will function to stop head cutting in channels, thus preventing the concentration of flow in main channels. This will allow flows to inundate floodplains and enhance fine sediment replenishment of floodplains. Changes in channel form will also be addressed by this project. Improvements from riparian restoration and water retention in agricultural lands, along with grade stabilization structures, will reduce problems associated with the alteration of channel form such as channel deepening and lack of floodplains. In addition, project improvements in the reduction of soil erosion and sedimentation of local creeks will significantly decrease the deposition of fine sediments in the Colusa Basin Drain Sacramento River. This will benefit food supplies for fish and wildlife and increase Shaded Riverine Aquatic habitat and cover and nesting habitat. In addition, the rehabilitation of riparian areas and restoration of adjacent land for buffer zones through the watershed management component of this project will directly address the loss of existing riparian zones in the SSCW project area.

Water quality stressors caused by increased contaminants, nutrient input and mobilization of contaminants due to dredging will be addressed by this project. Diazinon and other contaminants and nutrient loads will be reduced through the watershed management component of the project. In addition, identification of pollutant sources and evaluation of effects of conservation practices will be attained through the monitoring element of the project. The problem of high water temperatures will be addressed through the increase of riparian shade and increased flows over the floodplain resulting from riparian revegetation and an improved flow hydrograph. The project will also benefit land use concerns. Resource management systems for rangeland will reduce negative grazing effects associated with loss of riparian habitat and increased erosion. Grade stabilization structures will provide a safe and reliable source of gravel upstream of the structure without causing stream channel instability

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

and deleterious changes in channel form. Furthermore, watershed-wide restoration actions including planning efforts, educational programs, establishing buffer zones and developing technical management practices will be applied to address stressors derived from forestry and agriculture practices.

d. BACKGROUND AND BIOLOGICAL/TECHNICAL JUSTIFICATION:

The Sand and Salt Creek Watershed is approximately 81,000 acres and is considered a sub-watershed within the Colusa Basin. Surface waters within the SSCW feed into the Colusa Drain by way of several west-side tributaries and canals. The Colusa Drain has been identified as an impaired water body. The drain, in turn, conveys water into the Sacramento River, also an impaired water body. The SSCW contains agricultural land uses which have been identified as contributors to NPS pollution (Pesticides in Surface Water from Applications on Orchards and Alfalfa During the Winter and Spring of 1991-92; CA RWQCB, Feb. 1993). Particular pollution sources are Diazinon and sedimentation from almond orchards, animal waste/nutrients and sedimentation from grazing lands, and sedimentation from other irrigated cropland. Sand and Salt Creek is flooded out each winter due to concentrated flows from the upper watershed, and runoff from adjacent orchards. The flooding situation contributes to the transport of the above pollutants into the Colusa Basin Drain. In addition to the Colusa County Resource Conservation District (CRCD), three agencies have recognized the flooding problem as an issue to receive attention: The Colusa County Board of Supervisors, the Colusa County Public Works Department (CPWD), which has completed the design work and an environmental assessment, and has calculated velocities at flood-stage; and the Colusa Basin Drainage District CRMP planning group. In 1996, the Sand and Salt Creek Watershed was ranked the 13th most important Geographical High Priority Area for resource concerns in California by the USDA Natural Resources Conservation Service.

The primary causes of the NPS pollution items previously mentioned include current management practices, timing of heavy equipment orchard operations, miss-application of pesticides, timing of water management, lack of cover leading to poor water infiltration and improper grazing distribution. Pesticides in surface water from applications on orchards and rowcrop runoff into local drainage channels. Sedimentation and nutrients in surface water from rangelands cause stream bank and stream channel destabilization. Poor water infiltration due to a lack of soil cover on rangeland and orchards leads to increased flows into drainage channels. The increase in flow volume and velocity in channels of the SSCW area has led to head cutting and a destabilization of grade in channels of the watershed. The indiscriminate gravel mining methods by the private and public sector has caused further stream channel instability. Through watershed-wide management planning, educational programs, establishing buffer zones, application of conservation practices on farms and the installation of grade stabilization structures in channels, the SSCW project expects to bring about sustained benefits to the local watershed, the Colusa Basin Drain and the Sacramento River.

In 1995 the CRCD received a three year Section 319(h) EPA grant through the CA State Water Resources Control Board to assist in implementing the Sand and Salt Creek Watershed project. The project is a study and land treatment program to assist six landowners with setting up demonstration sites to monitor conservation practices and their effects on reducing flooding, erosion and the transport of water pollutants such as soil sediments and pesticides. A Steering Committee of landowners within the watershed, agricultural groups, and participating agencies/groups serves to provide support and guidance for the project. The total project budget is \$467,808. The 319(h) grant provides \$283,745 of the project funding, and the CRCD provides the other \$184,059 for the project as in-kind services. Currently the SSCW project is at the end of its second fiscal year. To date the project has expended \$160,837 of its budget. As shown in Attachment 2, significant progress has been made toward the implementation of RMS plans on the 6 demonstration sites and the 20 alternate sites.

The response to the SSCW project by the community has been very positive. In fact, there has been an overwhelming interest by local landowners to participate as alternative demonstration sites or secondary

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

cooperating sites that will apply conservation practices on their land. At present 34 more landowners in the SSCW that have signed up to become cooperating sites and receive assistance to implement conservation practices. The total cost for implementing these new requests is estimated to exceed \$700,000. Thus, there is a strong need for financial assistance to meet these requests, which if addressed, will significantly improve the health of the SSCW, the Colusa Basin Drain and the Sacramento River.

e. PROPOSED SCOPE OF WORK:

TASK 1. PROJECT MANAGEMENT AND ADMINISTRATION

The Colusa County Resource Conservation District (CRCD) is the lead agency for the proposed Sand and Salt Creek Watershed Project. CRCD has an MOU with the USDA and with the Natural Resources Conservation Service (NRCS). Via the MOUs the NRCS will act as staff to assist with implementation, and will provide part-time staff to assist with all phases of the project. The CRCD will seek other MOUs during the first year with other cooperating agencies and arrange for staff to manage the project. The existing Steering Committee will have the role of overseeing the project and to provide public participation.

The CRCD consists of 7 volunteer directors and 1 paid staff position, a part-time secretary. In addition to the RCD providing a full-time project manager, NRCS will provide the RCD with a part-time Planner, a part-time Agricultural Engineer and other staff as needed. The RCD secretary will provide administrative support, and an NRCS Planner will work in the field with the landowners to develop Resource Management System plans, collect baseline data, and monitor implementation. The CRCD shall be responsible for providing technical and administrative services as needed for project completion including but not limited to: staff resources for monitoring, supervising, and reviewing all work performed; coordination of budgeting, scheduling, and subcontract administration. The Steering Committee and Project Manager will develop a Plan of Operations, scheduling tasks to be completed, projected completion dates and who will be responsible for each task.

The project manager will be responsible for evaluating and managing the project performance. The project manager will attend both the CRCD meetings and the Steering Committee meetings on a regular basis. At the meetings the manager will present a written progress report. The project manager shall prepare and submit written quarterly progress reports to the CALFED BAY-DELTA PROGRAM.

TASK 2: PUBLIC PARTICIPATION

The CRCD shall ensure the existence of a Steering Committee to: 1) oversee the progress and technical aspects of the project, 2) act as a liaison between local landowners and agency representatives, and 3) coordinate educational workshops and field tours. The overall management of the project shall be guided formally through reviews with the Steering Committee. The CRCD will sponsor public meetings at least once a year to discuss project progress and to review the plan of operations. A responsiveness summary shall be prepared for each public meeting conducted for the project. Responsiveness summaries shall be submitted to the CALFED BAY DELTA PROGRAM Contract Manager and shall be made available to the public upon request.

TASK 3. SELECT 6 SELECT COOPERATING SITES WITHIN WATERSHED

The Steering Committee will be responsible for developing the criteria for each of the cooperating sites to include rangeland, almond orchards, for irrigated cropland. Criteria will include: environmental benefit of practices to be included in Resource Management System plan, easy access for tours, landowner's capability of cost-sharing 25% of practices and ease of monitoring the system. Site criteria will be tabulated on a checklist and a rating system will be developed for ranking locations. Selections will be based on ranking. Mass mailing will be conducted to landowners within the watershed announcing solicitation for project cooperators.

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

TASK 4. ESTABLISH MONITORING SITES

The project manager will develop a monitoring protocol which will include: description of pollutants being monitored, sampling methods to be conducted for the various landuse types, sampling schedules, field data sheets to be used by staff, location where samples will be sent for analysis, method of storing and transporting samples, breakdown of equipment needed for monitoring, and all associated costs. The project manager and planner will select locations at six cooperating sites for monitoring stations. A minimum of two stations per site will be established (upstream and downstream) to monitor water quality. Locations will be indicated on plan maps for submission into the Resource Management System plans.

TASK 5. COLLECT ANALYZE & DOCUMENT BASELINE DATA

The project planner and/or project manager will collect initial samples at each monitoring site to establish baseline data. The samples will be collected, stored, and transported as outlined in the monitoring protocol. Lab results will be documented for inclusion in the Resource Management System plan monitoring component. All baseline data will be documented for inclusion in the Resource Management System plans. Monitoring data will be sent to a sub-contractor to be analyzed.

TASK 6. DEVELOP RESOURCE MANAGEMENT SYSTEM PLANS

The project planner will meet with each of the landowners and develop Resource Management System plans for each site. A checklist will be included to document the elements required for a complete Resource Management System plan. Once all the elements are present, the plan will be submitted to the Steering Committee for approval. After approval, the landowner, the CRCDC, the Colusa Farm Services Agency County Committee, and the NRCS District Conservationist will review and approve the plan and the schedule of operations.

TASK 7. SCHEDULE WORKSHOPS AND TOURS

The Steering Committee will produce a schedule of all the workshops and tours to be conducted during implementation of the project. A minimum of two workshops will be conducted each of the three project years, for a total of 6 workshops. A minimum of three tours will be conducted during the 2nd and 3rd project year, for a total of 6 tours. Landowners who have signed Resource Management System contracts for cooperating sites must be willing to host at least one workshop/tour. Six of the cooperating sites will be selected to host a workshop/tour during the 3 year contract.

TASK 8. IMPLEMENT RMS PLANS

The project manager will coordinate the appropriate staff to assist landowners with implementation of scheduled practices in the RMS plans. Practice designs and specifications will be documented and agreed upon prior to construction. After installation, the practices will be inspected. The RMS plans will be reviewed on an annual basis. The monitoring element of the plans will begin after the practices are installed. Monitoring data will be sent to a sub-contractor to be analyzed.

TASK 9. IMPLEMENT GRADE STABILIZATION STRUCTURES

In cooperation with the Colusa Public Works Department (CPWD), the project manager will coordinate the appropriate staff to implement grade stabilization structures in channels of the SSCW. The CPWD will conduct feasibility studies and the design plans for proposed channel sites. The work shall consist of furnishing material and installing grade stabilization structures in channels. Hazard mitigation for one site on Salt Creek has

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

already been completed by the CPWD. Practice designs and specifications will be documented and agreed upon prior to construction. After installation, the practices will be inspected.

TASK 10 CONDUCT WORKSHOPS AND TOURS

The project manager will coordinate the workshops and tours as scheduled in Task 7. Announcements of each event will be mailed to all landowners within the watershed. Appropriate materials will be purchased (property acquisitions) to produce student educational packets, video/slide shows, and to post signs at the demonstration sites. Workshop/Tour evaluation forms will be provided to all participants for the purpose of monitoring these elements of the educational component of the project.

TASK 11 PREPARE PROJECT FINAL REPORT

The project manager will prepare a draft project report which will present the results of the tasks completed. The project manager will evaluate and prepare responses to all comments made by public agencies, special districts and interested parties on the draft report. All significant comments will be incorporated into the final report and submitted to the Steering Committee for review. Upon committee approval, the final report will be sent to the CALFED Contract Manager for review and acceptance as well as other appropriate agencies.

f. MONITORING AND EVALUATION

A Steering Committee presently exists whose purpose is to act as a citizen's monitoring group by making decisions and recommendations regarding progress of the project, results of surveys, to sponsor public meetings and to sponsor all educational workshops and tours. Landowner surveys will be conducted yearly to monitor landowner opinions and adoption toward the Clean Water Act, and the RMS plans being demonstrated.

The monitoring program will compare quantity and/or quality of soil and water that is entering the site, to soil and water leaving the site, with the objective of improving water quality via the installation of specific conservation practices scheduled in an RMS level plan. Baseline water quality and resource data will be gathered during the first year for the cooperating sites (Note: sources of NPS pollutants to Colusa Drain will be first level of data, other resource conditions will be second level). As part of the RMS plans, a monitoring component will be written to outline a monitoring protocol, i.e., frequency, locations, and methodology. The plans will be written during the first year and status reviews will be conducted the 2nd and 3rd years to document practice implementation and monitoring findings. The status reviews and baseline data will be made available to all interested parties on a yearly basis. Contracts will be entered upon with project cooperators to assure commitment and follow-through during the project. The monitoring parameters to be studied are:

Rangelands:	erosion, sedimentation, infiltration, runoff
Orchard:	erosion, sedimentation, infiltration, runoff, Diazinon
Irrigated Row Crop:	erosion, sedimentation, infiltration, runoff

g. IMPLEMENTABILITY

The Colusa County RCD currently has MOU's with the USDA, and the NRCS Colusa Field Office. The NRCS mission includes watershed based assistance, and ecosystem based assistance. The RMS level plans that are being proposed for each cooperating site meet the goals of watershed based assistance. The proposed steering committee membership will also be for the purpose of providing watershed based assistance. In addition, the Colusa County RCD will enter into Memorandum of Agreement with all interested parties to insure commitment throughout the life of the project. The following MOAs will be sought during the first year: Colusa County Public Works, Colusa County Board of Supervisors, all cooperating site landowners/managers, FSA County Committee, Colusa Basin Drainage District, Yolo County RCD and Department of Water Resources.

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

IV. COSTS AND SCHEDULE TO IMPLEMENT PROPOSED PROJECT

a. BUDGET COSTS:

Project Phase and Task	Labor Hours	Salary & Benefits	Overhead Labor	Service Contracts	Material & Acquisition	Misc. and other costs	Total Costs
Task 1: Project Management & Administration	188	4898			2,900	4,500	12,298
Task 2: Public Participation	756	19,660				5,000	24,660
Task 3: Select Cooperating Sites	53	1,386					1,386
Task 4: Establish Monitoring Sites	488	12,640					12,640
Task 5: Baseline Resource Data	769	20,000		20,000	2,000		40,000
Task 6: Develop RMS Plans	826	21,470					21,470
Task 7: Schedule Workshops and Tours	68	1,760					1,760
Task 8: Implement RMS Plans*				160,659	162,000		322,659
Task 9: Implement Grade Stabilization Structures**				55,120	55,120		110,240
Task 10: Conduct Workshops and Tours	762	19,800	18,500		5,000		43,300
Task 11: Prepare Final Report	317	8,250					8,250
Totals:	4227	109,864	18,500	235,779	225,020	9,500	598,663

* Task 8: The \$322,659 represents 75% of the costs to install RMS plans. The remaining 25% will be provided by landowners with cooperating sites (\$107,553).

** Task 9: The Colusa County Department of Public Works has approximately \$1,461,620.00 budgeted to improve drainage within the proposed project area. The money is for survey, design and construction work and land acquisition to develop adequate drainage systems, water control structures, grade stabilization structures and decrease erosion. The 110,240 represents 100% of the construction costs to install grade stabilization structures.

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

Expenditure Summarized by Line Item Budget Category

- A. Personnel: Project Manager: 67% of salary for 3 years of project: \$109,864
- B. Operating Expenses - Photocopying, telephone, office supplies, mass mailings: \$9,500
- C. Property acquisition: Display Board, camera, over-head projector, flip-charts, slide show presentation, signs, computer rental: \$7,900
- D. Professional & Consulting Services: \$18,500
- E. Monitoring - Lab Analysis: \$20,000
- E. Resource Management System Plans - Implementation \$322,659 (75% of the cost-share rate)
- F. Grade Stabilization Structures - Implementation: \$110,240

b. SCHEDULE MILESTONES:

Project Phase and Task	Start Date	Completion Date
Task 1: Project Management & Administration	Nov. 1997	Oct. 2000
Task 2: Public Participation	Dec. 1997	Sep. 2000
Task 3: Select Cooperating Sites	Dec. 1997	Jan. 1998
Task 4: Establish Monitoring Sites	Feb. 1998	Nov. 1998
Task 5: Baseline Resource Data	Feb. 1998	Dec. 1998
Task 6: Develop RMS Plans	May 1998	Nov. 1998
Task 7: Schedule Workshops and Tours	May 1998	May 1998
Task 8: Implement RMS Plans*	May 1998	Sept. 2000
Task 9: Implement Grade Stabilization Structures**	May 1998	Sept. 2000
Task 10: Conduct Workshops and Tours	Feb. 1998	Sept. 2000
Task 11: Prepare Final Report	Aug. 2000	Oct. 2000

c. THIRD PARTY IMPACTS: None identified to date.

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

V. APPLICANT QUALIFICATIONS

The Colusa County Resource Conservation District consists of 7 volunteer directors and 1 paid staff position, a part-time secretary. In addition to the RCD providing a full-time project manager, NRCS will provide the RCD with a part-time Planner, a part-time Agricultural Engineer and other staff as needed. The RCD secretary will provide administrative support, and an NRCS Planner will work in the field with the landowners to develop Resource Management System plans, collect baseline data, and monitor implementation. The Colusa Public Works Department will provide a part-time Civil Engineer to assist with the survey and design of grade stabilization structures.

The CRCD shall be responsible for providing all technical and administrative services as needed for project completion including but not limited to: staff resources for monitoring, supervising, and reviewing all work performed; coordination of budgeting, scheduling, and subcontract administration. The Steering Committee and Project Manager will develop a Plan of Operations each year, scheduling tasks to be completed, projected completion dates and who will be responsible for each task.

The project manager will be responsible for evaluating and managing the project performance. The project manager will attend both the CRCD meetings and the Steering Committee meetings on a regular basis. At the meetings the manager will present a written progress report. The following illustrates the responsibilities of individuals or groups involved with the project:

<u>Project Responsibility:</u>	<u>Individual/Group</u>
1. Act as CRCD representative for technical conduct/administration of the project on behalf of CRCD.	Project Manager
2. Submit quarterly reports to the CRCD and Steering Committee for approval prior to submission.	Project Manager
3. Develop and maintain financial records for project.	CRCD
4. Conduct Steering Committee Meetings to review project progress and allow for public comments/input.	CRCD SSCW Project Steering Committee
5. Seek Memoranda of Understanding (MOU) with local, state and federal agencies as well as special interest groups participating on Steering Committee.	CRCD Directors Steering Committee
6. Produce Watershed Newsletter on quarterly basis	Project Manager
7. Schedule Educational Workshops and tours	SSCW Project Steering Committee
8. Select cooperating sites based on criteria.	SSCW Project Steering Committee & AD Hoc Group

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

<u>Project Responsibility:</u>	<u>Individual/Group</u>
9. Develop monitoring protocol outlining sampling methods, materials, and schedule.	Project Manager
10. Develop RMS level plans for each of the new alternate sites.	Project Planner, Agricultural Engineer Project Manager
11. Survey and design plans for grade stabilization structures	Civil Engineer
12. Establish monitoring sites at each demonstration site.	Project Planner Project Manager
13. Implement Practices	Landowners
14. Certify Completion of Installed Practices	Project Engineer Project Manager

Biosketches on Responsible Individuals:

Position: Project Manager
 Individual: Roney Gutierrez
 Education: North Carolina State University, MS Soil Science
 Employer: Natural Resources Conservation Service
 Experience: Project Manager for Sand and Salt Creek Watershed Project since October 1996
 Soil Conservationist with Natural Resources Conservation Service since September 1992

Position: Project Planner
 Individual: Alan Forkey
 Education: Colorado State University, BS Wildlife Biology
 Employer: Natural Resources Conservation Service
 Experience: District Conservationist in Colusa County since November 1990

Position: Agricultural Engineer
 Individual: Carlos Velazquez
 Education: California State University - Sacramento, BS Civil Engineering
 Employer: Natural Resources Conservation Service
 Experience: Agricultural Engineer with Natural Resources Conservation Service since April 1992

Position: Associate Civil Engineer
 Individual: Jon Wrynski
 Education: California State University - Chico, BS Civil Engineer
 Employer: Colusa County Public Works Department
 Experience: Civil Engineer with Yolo and Colusa County Public Works Departments since June 1985

**COLUSA COUNTY RESOURCE CONSERVATION DISTRICT
CALFED BAY-DELTA PROJECT PROPOSAL**

Cooperating Agencies:

Agency Name: USDA Natural Resources Conservation Service
Role/Contribution to Project: Provide technical assistance and/or training to project manager and/or planner on developing resource management system plans.
Formal Agreement: MOU entered upon August 2, 1990.
Contact Person: Roney Gutierrez/Alan Forkey
Phone: 916-458-2931

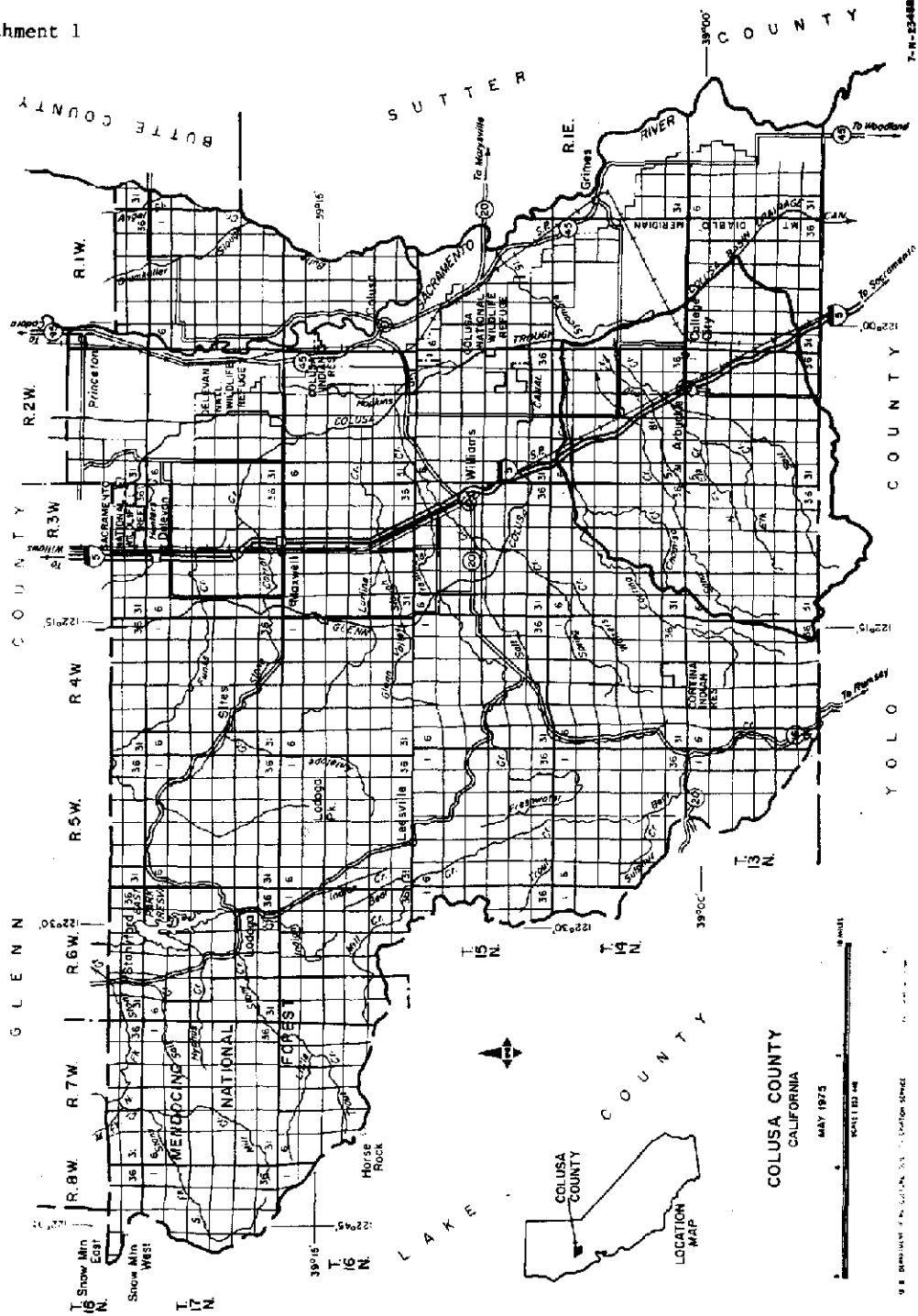
Agency Name: Colusa County Dept. of Public Works
Role/Contribution to Project: Construction project is within project boundaries. To serve on steering committee; responsible for feasibility and design of grade stabilization structures.
Contact Person: John Joyce; **Phone:** 916-458-0466

Agency Name: Colusa Basin Drainage District
Role/Contribution to Project: Project is within the Colusa Basin DO CRMP.
Contact Person: Gaye Lopez; **Phone:** 916-795-3038

Agency Name: Colusa County Board of Supervisors
Role/Contribution to Project: Have budgeted construction funds to Flood Control Project within project watershed. To serve on steering committee.
Contact Person: Jerry Maltby; **Phone:** 916-458-0508

VI. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS

The terms and conditions applicable to this proposal are agreeable to and able to be complied with by the Colusa County Resource Conservation District. (See Attachment 3).



1 - 004276

**SAND AND SALT CREEK WATERSHED PROJECT
S.319 NPS Demonstration Project**

Submitted By:
Colusa County Resource Conservation District
Project Manager, Roney Gutierrez

Project Progress To-Date

Task	Description	Date	% Completed
Task 1	PROJECT MANAGEMENT & ADMINISTRATION		
1.1	Year 1 Plan of Operations	1/22/96	100%
	Year 2 Plan of Operations	1/31/97	100%
	Year 3 Plan of Operations		
1.2	Quarterly Progress Reports		
	Year 1	12/16/96	100%
	Year 2	7/31/97	75%
	Year 3		
1.3	Data Mgmt. - SWQIS/STORET Data Submission		
1.4	Agency Audit		
Task 2	PUBLIC PARTICIPATION		
2.1	Introductory Public Meeting	11/15/95	100%
	Responsiveness Summary	1/22/96	100%
2.2	MOU's with Participating Agencies		
	Quarterly Steering Committee Meetings		
	Year 1	8/7/96	100%
	Year 2	3/6/97	75%
	Year 3		
2.3	Conduct Public Meetings		
	Responsiveness Summaries		
Task 3	SELECT DEMONSTRATION SITES		
3.1	Site Evaluation Checklist	2/12/96	100%
	Rating System	2/12/96	100%
3.2	Select Demonstration Sites	5/29/96	100%
Task 4	QUALITY ASSURANCE PLAN		
Task 5	ESTABLISH MONITORING SITES		
5.1 -	Monitoring Protocol	1/3/97	100%
5.2	Set-up WQ Monitoring Stations	4/30/97	20%

Project Progress To-Date
(Cont.)

Task	Description	Date	% Completed
Task 6	BASELINE RESOURCE DATA		
	Document, Collect & Analyze Data (Year 1)	4/30/97	100%
Task 7	DEVELOP RMS PLANS		
	6 Demo Plans	10/31/96	100%
	20 Additional Plans	10/31/96	45%
Task 8	SCHEDULE WORKSHOPS AND TOURS	4/30/97	67%
Task 9	IMPLEMENT RMS PLANS		
9.1	Implementation on Demo sites	4/30/97	40%
9.2	Install Practices on alternate sites	1/31/97	25%
9.3	Survey, design, certifications	10/31/96	30%
9.4	Monitor Practices		
9.5	Annual Status Reviews		
9.6	Analyze Data (Years 2 & 3)		
Task 10	CONDUCT WORKSHOPS AND TOURS		
	Materials Purchase	4/30/97	25%
	Workshops	3/22/97	67%
	Consultant Fees	4/30/97	4%
	Tours		
	Newsletters		
Task 11	PREPARE FINAL REPORT		
11.1	Draft Final Report		
11.2	Project Final Report		

NONDISCRIMINATION COMPLIANCE STATEMENT

COMPANY NAME

Colusa County Resource Conservation District

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

BRANDON T. ASH

DATE EXECUTED

7-28-97

EXECUTED IN THE COUNTY OF

Colusa

PROSPECTIVE CONTRACTOR'S SIGNATURE

Brandon T. Ash For Colusa RCD

PROSPECTIVE CONTRACTOR'S TITLE

Colusa County Resource Conservation District

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

Colusa County Resource Conservation District